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MITRON 700 SC

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	MITRON 700 SC
Authorisation number	:	PCS06516
Active substance	:	Metamitron (58,8 %) EC No.: 255-349-3 CAS No.: 41394-05-2 IUPAC Name: 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one
Substance No.	:	300000000006

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	:	Herbicide for professional use.

1.3 Details of the supplier of the safety data sheet

Address	:	Belcrop BV Tiensestraat 300 3400 Landen Belgium
Telephone	:	+32 11 59 83 60
Telefax	:	+32 11 59 83 61
E-mail address Contact Point	:	info@belcrop.be

1.4 Emergency telephone number

National Poisons Information Centre (Beaumont Hospital): 01 809 2166 (8 AM - 10 PM)
Emergency number in Belgium (24h/24, 7d/7): +32 11 69 79 80

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Hazardous to the aquatic environment - Acute hazard, Category 1	H400: Very toxic to aquatic life.
Hazardous to the aquatic environment - Acute hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (Regulation (EC) No. 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements		
:	H302	Harmful if swallowed.
	H410	Very toxic to aquatic life with long lasting effects.
	EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
	EUH208	Contains 1,2-benzisothiazol-3(2H)-one (CAS No. 2634-33-5). May produce an allergic reaction.

Precautionary statements		
:	**Prevention:**	
	P280	Wear protective gloves/ protective clothing.
	Response:	
	P301 + P330 + P311	IF SWALLOWED: rinse mouth. Call a POISON CENTER or doctor/ physician.
	P391	Collect spillage.
	Disposal:	
	P501	Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS No. EC No. Index No. Registration No.	Classification (Regulation (EC) No. 1272/2008) M-Factor/SCL/ATE	Conc. [%]
Metamitron	41394-05-2 255-349-3 613-129-00-8 -	Acute Tox. 4; H302 Aquatic Acute 1; H400	58,8
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 SCL Skin Sens. 1; H317: >= 0,036 %	< 0,05
Sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Skin Corr. 1A; H314 SCL Skin Corr. 1A; H314: >= 5 % SCL Skin Corr. 1B; H314: 2 - < 5 % SCL Skin Irrit. 2; H315: 0,5 - < 2 % SCL Eye Irrit. 2; H319: 0,5 - < 2 %	<= 0,01
Substances with a workplace exposure limit			
Sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Skin Corr. 1A; H314 SCL Skin Corr. 1A; H314: >= 5 % SCL Skin Corr. 1B; H314: 2 - < 5 % SCL Skin Irrit. 2; H315: 0,5 - < 2 % SCL Eye Irrit. 2; H319: 0,5 - < 2 %	<= 0,01

For the full text of the hazard statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled: : Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or a doctor if you feel unwell.

In case of skin contact:	:	Take off contaminated clothing. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
In case of eye contact:	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse AWAY from the unaffected eye.
If swallowed:	:	Rinse mouth. Call a POISON CENTER or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	For specialist advice physicians should contact the poisons information service.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	:	Water spray jet Polyvalent foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see Section 10). Exposure to decomposition products may be a hazard to health. Do not use a solid water stream as it may scatter and spread fire.

5.3 Advice for firefighters

Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Other information	:	Standard procedure for chemical fires. In the event of fire and/or explosion do not breathe fumes. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Ensure adequate ventilation.
Refer to protective measures listed in Section 7 and 8.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
Shovel into suitable container for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.4 Reference to other sections

See Section 8 for exposure controls/personal protection. See Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle with care.
Take care to avoid waste and spillage when weighing, loading and mixing the product.
Smoking, eating and drinking should be prohibited in the application area.
Never mix concentrates directly.
Avoid inhalation, ingestion and contact with skin and eyes.
Avoid formation of dust and aerosols.
For personal protection see Section 8.
Avoid exceeding of the given occupational exposure limits (see Section 8).

Advice on protection against fire and explosion : Use explosion-proof equipment.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than

the occupational exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature.
Store in original container.
Keep in a dry, cool and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
Keep away from food, drink and animal feeding stuffs.
Keep out of reach of children.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component	CAS No.	Form of exposure	Value type	Control parameters	Basis
Sodium hydroxide	1310-73-2	Not specified	STEL	2 mg/m3	IE OEL

8.2 Exposure controls

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Recommended Filter type:
ABEK

: In the case of dust or aerosol formation use respirator with an approved filter.
Recommended Filter type:
P2FFP2

Hand protection : Protective gloves complying with EN 374.

Eye protection : Safety glasses with side-shields conforming to EN 166.

Skin and body protection : Long-sleeved clothing.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.

Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Store personal protection equipment in a clean location away from the work area. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Keep away from food and drink. Wash hands before eating, drinking, or smoking.
Protective measures	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. Always have on hand a first-aid kit, together with proper instructions.

Environmental exposure controls

General advice	:	Discharge into the environment must be avoided. Prevent further leakage or spillage. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
Soil	:	Avoid subsoil penetration.
Water	:	Do not flush into surface water or sanitary sewer system. Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Liquid
Colour	:	White
Odour	:	Not significant
Odour Threshold	:	No data available
Flash point	:	> 98 °C
Ignition temperature	:	No data available
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Explosive properties	:	Not explosive

Flammability	:	Not applicable
Oxidising properties	:	Not oxidising
Auto-ignition temperature	:	Not auto-flammable
Decomposition temperature	:	250 °C (Active substance)
pH	:	6,9 - 7,0 Conc.: 1 % (as aqueous solution)
Melting point/melting range	:	166 °C (Active substance)
Boiling point/boiling range	:	No data available
Vapour pressure	:	7,44 Pa at 25 °C (Active substance)
Density	:	1,19 g/cm3
Relative density	:	1,19
Solubility in water	:	1,68 g/l at pH 7 at 25 °C (Active substance)
Partition coefficient n-octanol/water	:	Log Pow: 0,85 - 0,96 at 25 °C (Active substance)
Kinematic viscosity	:	376,1 - 12601,6 mm2/s
Relative vapour density	:	No data available
Evaporation rate	:	No data available
Particle size	:	Not applicable

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.
Other hazardous decomposition products may be formed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity

Product

Acute oral toxicity	:	LD50 Oral: > 300 mg/kg Species: Rat
	:	LD50 Oral: < 2.000 mg/kg Species: Rat Remarks: Single dose

Component

Acute oral toxicity Metamitron 41394-05-2	:	LD50 Oral: 1.183 mg/kg Species: Rat

Product

Acute inhalation toxicity	:	Remarks: No adverse effect has been observed in acute toxicity tests.

Component

Acute inhalation toxicity Metamitron 41394-05-2	:	LC50: 3,17 mg/l Exposure time: 4 h

Species: Rat
Target Organs: Whole body

Product

Acute dermal toxicity	:	LD50 Dermal: > 2.000 mg/kg Species: Rat Remarks: 24 h

Component

Acute dermal toxicity Metamitron 41394-05-2	:	LD50 Dermal: > 5.000 mg/kg Species: Rat

Skin corrosion/irritation

Product

Skin irritation	:	Species: Rabbit Results: No skin irritation Exposure time: 4 h

Component

Skin irritation Metamitron 41394-05-2	:	Results: No skin irritation

Serious eye damage/eye irritation

Product

Eye irritation	:	Species: Rabbit Results: Mild eye irritation Exposure time: 96 h

Component

Eye irritation Metamitron 41394-05-2	:	Results: No eye irritation

Respiratory or skin sensitization

Product

Sensitisation	:	Species: Guinea pig Results: Did not cause sensitization on laboratory animals.

Component

Sensitisation Metamitron	:	Test type: Maximisation Test

41394-05-2 Results: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Product

Germ cell mutagenicity-Assessment : Contains no ingredient listed as a mutagen.

Component

Genotoxicity in vitro
Metamitron
41394-05-2 : Remarks: The substance is unlikely to be genotoxic

Genotoxicity in vivo
Metamitron
41394-05-2 : Remarks: The substance is unlikely to be genotoxic

Metamitron
41394-05-2 : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Product

Remarks : Contains no ingredient listed as a carcinogen.

Reproductive toxicity

Product

Reproductive toxicity - Assessment : No data available

Component

Effects on fertility

Metamitron
41394-05-2 : General toxicity parent: NOAEL: 7,3 mg/kg bw/day
General toxicity F1: NOAEL: 97,2 mg/kg bw/day
General toxicity F2: NOAEL: 7,3 mg/kg bw/day

Effects on foetal development

Metamitron
41394-05-2 : Species: Rat
General Toxicity Maternal: NOAEL: 10 mg/kg bw/day
Developmental Toxicity: NOAEL: 100 mg/kg bw/day

Species: Rabbit
General Toxicity Maternal: NOAEL: 40 mg/kg bw/day
Developmental Toxicity: NOAEL: 160 mg/kg bw/day

Specific target organ toxicity - single exposure

Product

: Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Component

Metamitron 41394-05-2	:	Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Product

: Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Component

Metamitron 41394-05-2	:	Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Product

Aspiration toxicity	:	No aspiration toxicity classification.

Component

Metamitron 41394-05-2	:	No aspiration toxicity classification.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information

Product

Remarks	:	No human information is available.

SECTION 12: Ecological information

12.1 Toxicity

Product

Toxicity to fish : EC50: 100 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (Rainbow trout)

Product

Toxicity to daphnia and other aquatic invertebrates. : EC50: 64,1 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Product

Toxicity to algae and aquatic plants : ErC50: 5,51 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (Green algae)

Component

M-Factor Acute aquatic toxicity

1,2-benzisothiazol-3(2H)-one : 1
2634-33-5

M-Factor Chronic aquatic toxicity

1,2-benzisothiazol-3(2H)-one : 1
2634-33-5

12.2 Persistence and degradability

Metamitron : Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.
41394-05-2

Component

Stability in water

Metamitron : Degradation half-life (DT50): 19 Days
41394-05-2

Component

Stability in soil

Metamitron 41394-05-2	:	Percentage dissipation: 50 % (DT50: 22 d)

12.3 Bioaccumulative potential

Component

Bioaccumulation

Metamitron 41394-05-2	:	Remarks: Bioaccumulation is unlikely.

Component

Partition coefficient n-octanol/water

Metamitron 41394-05-2	:	Log Pow: 0,85 - 0,96

12.4 Mobility in soil

Component

Mobility

Metamitron 41394-05-2	:	Remarks: The product will be dispersed amongst the various environmental compartments (soil/ water/ air). After release, adsorbs onto soil. Groundwater contamination is possible.
Metamitron 41394-05-2	:	Koc: 86,4 Koc unit: mL/g

12.5 Results of PBT and vPvB assessment

Product

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	Triple rinse containers. Do not re-use empty containers. Store containers and offer for recycling of material when in accordance with the local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

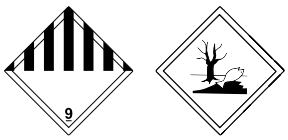
ADR	:	UN 3082
IMDG	:	UN 3082
IATA	:	UN 3082

14.2 UN proper shipping name

ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron)
IATA	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron)

14.3 Transport hazard class(es)

ADR	:	9



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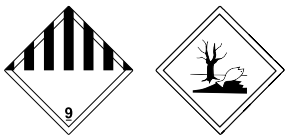
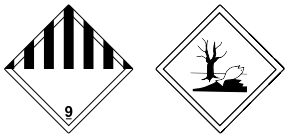


IATA : 9



14.4 Packing group

ADR

Packing group	:	III
Hazard identification No	:	90
Labels	:	9
Tunnel restriction code	:	(-)
Limited quantity	:	5,00 L

IMDG

Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft)	:	964
Maximum quantity	:	450,00 L
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous dangerous substance or article

IATA (Passenger)

Packing instruction (passenger aircraft)	:	964
Maximum quantity	:	450,00 L
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous dangerous substance or article

14.5 Environmental hazards

ADR

Environmentally hazardous	:	Yes

IATA (Passenger)

Environmentally hazardous	:	Yes

IATA (Cargo)
Environmentally hazardous : Yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major Accident Hazard Legislation : Legislation on the control of major-accident hazards involving dangerous substances
Seveso E1

SEVESO
SEVESO category:Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Full text of hazard statements referred to under Section 2 and 3.

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE – Acute toxicity estimate; BCF - Bioconcentration factor; bw – Body weight; EC number – European Community number; ECx – Concentration associated with x % response; EmS – Emergency Schedule; ErCx – Concentration associated with x % growth rate response; GLP – Good

Laboratory Practice; IATA – International Air Transport Association; IC50 – Half maximal inhibitory concentration; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50 % of a test population (Median Lethal Dose); M-factor – Multipying factor; N.O.S. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; OECD – Organization for Economic Co-operation and Development; OEL – Occupacional exposure limit; PBT – Persistent, Bioaccumulative and Toxic substance; SCL – Specific Concentration Limit; TWA – Time-weighted average; UFI – Unique formula identifier; UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Other information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.